

PI 1095612

REC'D 24 NOV 2003

WIPO PCT

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

November 19, 2003

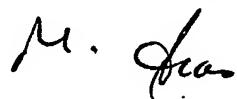
THIS IS TO CERTIFY THAT ANNEXED HERETO IS A TRUE COPY FROM
THE RECORDS OF THE UNITED STATES PATENT AND TRADEMARK
OFFICE OF THOSE PAPERS OF THE BELOW IDENTIFIED PATENT
APPLICATION THAT MET THE REQUIREMENTS TO BE GRANTED A
FILING DATE.

APPLICATION NUMBER: 60/411,368

FILING DATE: September 18, 2002

RELATED PCT APPLICATION NUMBER: PCT/US03/29648

By Authority of the
COMMISSIONER OF PATENTS AND TRADEMARKS



M. SIAS
Certifying Officer

PRIORITY
DOCUMENT
SUBMITTED OR TRANSMITTED IN
COMPLIANCE WITH RULE 17.1(a) OR (b)

BEST AVAILABLE COPY

Please type a plus sign (+) inside this box →

60411368 091802

Revised PTO/SB/16 (8-00)

Approved for use through 10/31/2002 OMB 0651-0032
Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE
Attorney Docket No 36871-181827

PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53 (c).

09/18/02
1059 U.S. PTO

60411368
09/18/02
1059 U.S. PTO

INVENTOR(S)		
Given Name (first and middle [if any]) Ron	Family Name or Surname Halliburton	Residence (City and either State or Foreign Country) Delray Beach, Florida

Additional Inventors are being named on the _____ separately numbered sheets attached hereto

TITLE OF THE INVENTION (280 characters max)

IMPROVEMENT FOR CRANE GAME

Direct all correspondence to

Customer Number

26694

OR

Type Customer Number here

26694

PATENT TRADEMARK OFFICE

Firm or

Individual Name

VENABLE

Address

P O Box 34385

Address

1201 NEW YORK AVENUE, NW, #1000

City

Washington

State

DC

ZIP

20043-9998

Country

U.S.A

Telephone

202 962 4800

Fax

202.962.8300

ENCLOSED APPLICATION PARTS (check all that apply)

Specification Number of Pages

20

CD(s), Number

Drawing(s) Number of Sheets

Other (specify)

Application Data Sheet. See 37 CFR 1.76

METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT (check one)

Applicant claims small entity status. See 37 CFR 1.27.

A check or money order is enclosed to cover the filing fees

FILING FEE
AMOUNT (\$)

The Commissioner is hereby authorized to charge filing
fees or credit any overpayment to Deposit Account Number:

22-0261

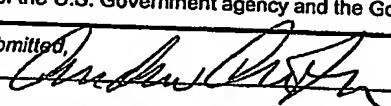
✓ 80.00

Payment by credit card. Form PTO-2038 is attached.

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

No.

Yes, the name of the U.S. Government agency and the Government contract number are: _____.

Respectfully submitted,
SIGNATURE 

Date

09/18/02

TYPED or PRINTED NAME Andrew C. Aitken

REGISTRATION NO.
(if appropriate)

36,729

TELEPHONE 202-962-4800-

Docket Number:

36871-181827

USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

This collection of information is required by 37 CFR 1.51 and is used by the public to file (and by the PTO to process) a provisional application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. SEND TO: Box Provisional Application, Assistant Commissioner for Patents, Washington, D.C. 20231

VENABLE
ATTORNEYS AT LAW

160411368 - 0001802
PTO/SB/17 (10-01)Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

A/PR

for the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision

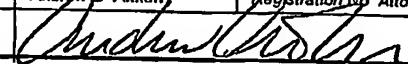
20/01/00
J-1059 U.S. PTO

TOTAL AMOUNT OF PAYMENT (\$ 80)

Complete If Known	
Application Number	To Be Assigned
Filing Date	July 23, 2002
First Named Inventor	Ron Halliburton
Examiner Name	
Group / Art Unit	
Attorney Docket No	36871-181827

METHOD OF PAYMENT (check one)				FEE CALCULATION (continued)																																																																																																																																																																																																																																	
<p>1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to.</p> <p>Deposit Account Number <input type="text" value="22-1281"/></p> <p>Deposit Account Name <input type="text" value="VENABLE"/></p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17</p> <p><input checked="" type="checkbox"/> Applicant claims small entity status See 37 CFR 1.27</p>				<p>3. ADDITIONAL FEES</p> <table> <thead> <tr> <th>Large Entity Fee Code (\$)</th> <th>Fee (\$)</th> <th>Small Entity Fee Code (\$)</th> <th>Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>116</td><td>400</td><td>216</td><td>200</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>117</td><td>920</td><td>217</td><td>460</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>118</td><td>1,440</td><td>218</td><td>720</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>128</td><td>1,860</td><td>228</td><td>980</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>119</td><td>320</td><td>219</td><td>160</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>320</td><td>220</td><td>160</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>280</td><td>221</td><td>140</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr> <tr><td>141</td><td>1,280</td><td>241</td><td>640</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>142</td><td>1,280</td><td>242</td><td>640</td><td>Utility Issue fee (or reissue)</td><td></td></tr> <tr><td>143</td><td>460</td><td>243</td><td>230</td><td>Design Issue fee</td><td></td></tr> <tr><td>144</td><td>620</td><td>244</td><td>310</td><td>Plant Issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Processing fee under 37 CFR 1.17 (q)</td><td></td></tr> <tr><td>126</td><td>180</td><td>126</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>146</td><td>740</td><td>246</td><td>370</td><td>Filing a submission after final rejection (37 CFR § 1.129(a))</td><td></td></tr> <tr><td>149</td><td>740</td><td>249</td><td>370</td><td>For each additional invention to be examined (37 CFR § 1.129(b))</td><td></td></tr> <tr><td>179</td><td>740</td><td>279</td><td>370</td><td>Request for Continued Examination (RCE)</td><td></td></tr> <tr><td>169</td><td>800</td><td>169</td><td>900</td><td>Request for expedited examination of a design application</td><td></td></tr> <tr> <td colspan="4">SUBTOTAL (1) <input type="text" value="(\$ 80)"/></td> <td colspan="4">Other fee (specify) <input type="text"/></td> </tr> <tr> <td colspan="4">2. EXTRA CLAIM FEES</td> <td colspan="4"> <table> <thead> <tr> <th>Total Claims</th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td></tr> <tr><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td></tr> <tr><td colspan="4">X <input type="text"/></td></tr> </tbody> </table> </td> </tr> <tr> <td colspan="4">SUBTOTAL (2) <input type="text" value="(\$ 0)"/></td> <td colspan="4">*Reduced by Basic Filing Fee Paid <input type="text"/></td> </tr> <tr> <td colspan="4"></td> <td colspan="4">SUBTOTAL (3) <input type="text" value="(\$ 0)"/></td> </tr> </tbody> </table>				Large Entity Fee Code (\$)	Fee (\$)	Small Entity Fee Code (\$)	Fee (\$)	Fee Description	Fee Paid	105	130	205	65	Surcharge - late filing fee or oath		127	50	227	25	Surcharge - late provisional filing fee or cover sheet		139	130	139	130	Non-English specification		147	2,520	147	2,520	For filing a request for reexamination		112	920*	112	920*	Requesting publication of SIR prior to Examiner action		113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action		115	110	215	55	Extension for reply within first month		116	400	216	200	Extension for reply within second month		117	920	217	460	Extension for reply within third month		118	1,440	218	720	Extension for reply within fourth month		128	1,860	228	980	Extension for reply within fifth month		119	320	219	160	Notice of Appeal		120	320	220	160	Filing a brief in support of an appeal		121	280	221	140	Request for oral hearing		138	1,510	138	1,510	Petition to institute a public use proceeding		140	110	240	55	Petition to revive - unavoidable		141	1,280	241	640	Petition to revive - unintentional		142	1,280	242	640	Utility Issue fee (or reissue)		143	460	243	230	Design Issue fee		144	620	244	310	Plant Issue fee		122	130	122	130	Petitions to the Commissioner		123	50	123	50	Processing fee under 37 CFR 1.17 (q)		126	180	126	180	Submission of Information Disclosure Stmt		581	40	581	40	Recording each patent assignment per property (times number of properties)		146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))		149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))		179	740	279	370	Request for Continued Examination (RCE)		169	800	169	900	Request for expedited examination of a design application		SUBTOTAL (1) <input type="text" value="(\$ 80)"/>				Other fee (specify) <input type="text"/>				2. EXTRA CLAIM FEES				<table> <thead> <tr> <th>Total Claims</th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td></tr> <tr><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td></tr> <tr><td colspan="4">X <input type="text"/></td></tr> </tbody> </table>				Total Claims	Extra Claims	Fee from below	Fee Paid	<input type="text"/>	X <input type="text"/>				SUBTOTAL (2) <input type="text" value="(\$ 0)"/>				*Reduced by Basic Filing Fee Paid <input type="text"/>								SUBTOTAL (3) <input type="text" value="(\$ 0)"/>										
Large Entity Fee Code (\$)	Fee (\$)	Small Entity Fee Code (\$)	Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																																																																
105	130	205	65	Surcharge - late filing fee or oath																																																																																																																																																																																																																																	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet																																																																																																																																																																																																																																	
139	130	139	130	Non-English specification																																																																																																																																																																																																																																	
147	2,520	147	2,520	For filing a request for reexamination																																																																																																																																																																																																																																	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action																																																																																																																																																																																																																																	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action																																																																																																																																																																																																																																	
115	110	215	55	Extension for reply within first month																																																																																																																																																																																																																																	
116	400	216	200	Extension for reply within second month																																																																																																																																																																																																																																	
117	920	217	460	Extension for reply within third month																																																																																																																																																																																																																																	
118	1,440	218	720	Extension for reply within fourth month																																																																																																																																																																																																																																	
128	1,860	228	980	Extension for reply within fifth month																																																																																																																																																																																																																																	
119	320	219	160	Notice of Appeal																																																																																																																																																																																																																																	
120	320	220	160	Filing a brief in support of an appeal																																																																																																																																																																																																																																	
121	280	221	140	Request for oral hearing																																																																																																																																																																																																																																	
138	1,510	138	1,510	Petition to institute a public use proceeding																																																																																																																																																																																																																																	
140	110	240	55	Petition to revive - unavoidable																																																																																																																																																																																																																																	
141	1,280	241	640	Petition to revive - unintentional																																																																																																																																																																																																																																	
142	1,280	242	640	Utility Issue fee (or reissue)																																																																																																																																																																																																																																	
143	460	243	230	Design Issue fee																																																																																																																																																																																																																																	
144	620	244	310	Plant Issue fee																																																																																																																																																																																																																																	
122	130	122	130	Petitions to the Commissioner																																																																																																																																																																																																																																	
123	50	123	50	Processing fee under 37 CFR 1.17 (q)																																																																																																																																																																																																																																	
126	180	126	180	Submission of Information Disclosure Stmt																																																																																																																																																																																																																																	
581	40	581	40	Recording each patent assignment per property (times number of properties)																																																																																																																																																																																																																																	
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))																																																																																																																																																																																																																																	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))																																																																																																																																																																																																																																	
179	740	279	370	Request for Continued Examination (RCE)																																																																																																																																																																																																																																	
169	800	169	900	Request for expedited examination of a design application																																																																																																																																																																																																																																	
SUBTOTAL (1) <input type="text" value="(\$ 80)"/>				Other fee (specify) <input type="text"/>																																																																																																																																																																																																																																	
2. EXTRA CLAIM FEES				<table> <thead> <tr> <th>Total Claims</th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td></tr> <tr><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td><td><input type="text"/></td></tr> <tr><td colspan="4">X <input type="text"/></td></tr> </tbody> </table>				Total Claims	Extra Claims	Fee from below	Fee Paid	<input type="text"/>	<input type="text"/>	X <input type="text"/>																																																																																																																																																																																																																							
Total Claims	Extra Claims	Fee from below	Fee Paid																																																																																																																																																																																																																																		
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																																																																																																																																																																																																																																		
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>																																																																																																																																																																																																																																		
X <input type="text"/>																																																																																																																																																																																																																																					
SUBTOTAL (2) <input type="text" value="(\$ 0)"/>				*Reduced by Basic Filing Fee Paid <input type="text"/>																																																																																																																																																																																																																																	
				SUBTOTAL (3) <input type="text" value="(\$ 0)"/>																																																																																																																																																																																																																																	

**or number previously paid, if greater. For Reissues, see above

SUBMITTED BY						Complete (if applicable)	
Name (Print/Type)	Andrew C. Aitken	Registration No. Attorney/Agent)	36,729	Telephone	202-662-4800		
Signature			5:10	Date	September 18, 2002		

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

VENABLE
ATTORNEYS AT LAW

PC Docs No. 389897

SEND TO Assistant Commissioner for Patents, Washington, DC 20231

User name is not in the listed

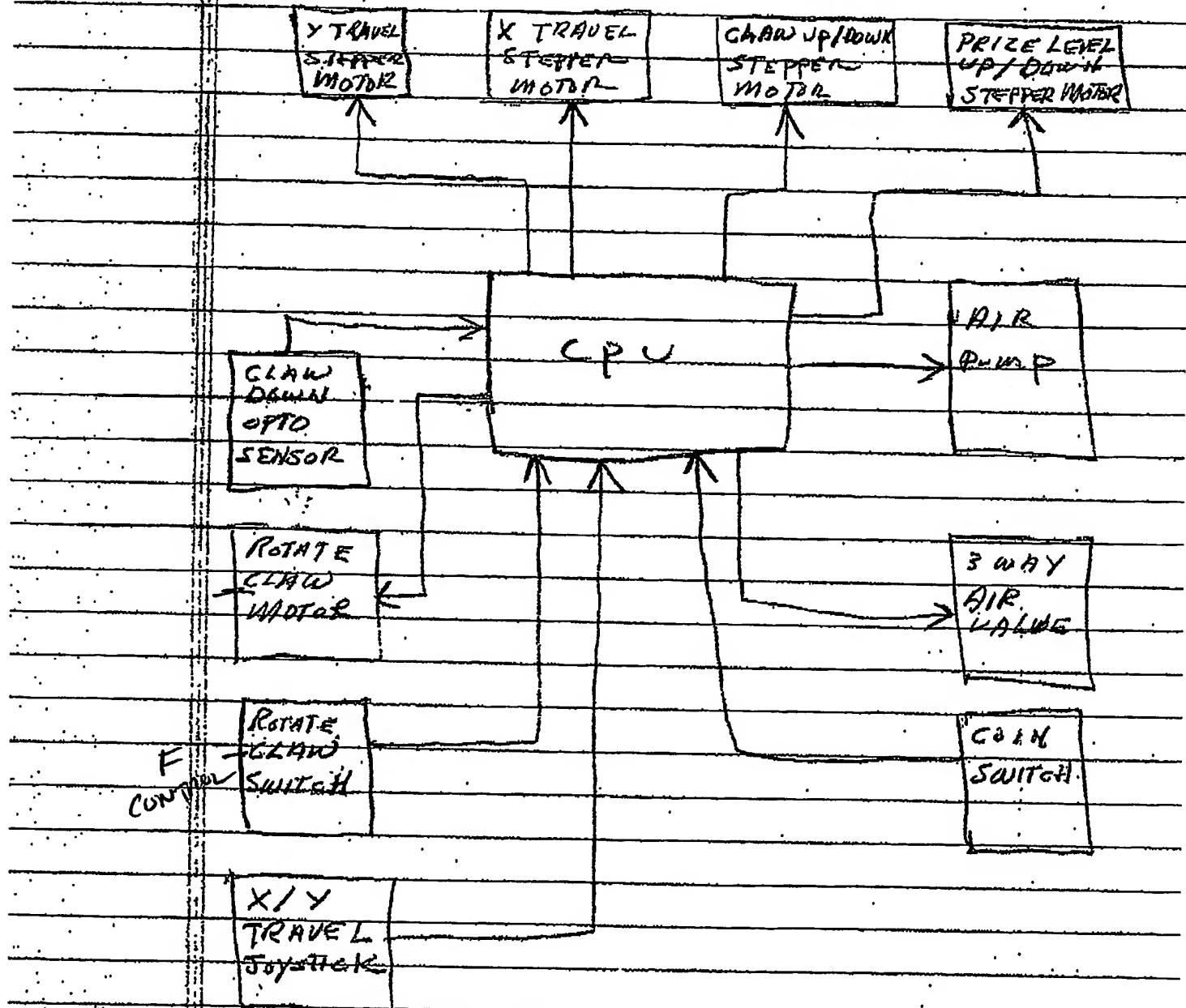
STANDARD CRANE VERSUS NEW FEATURES

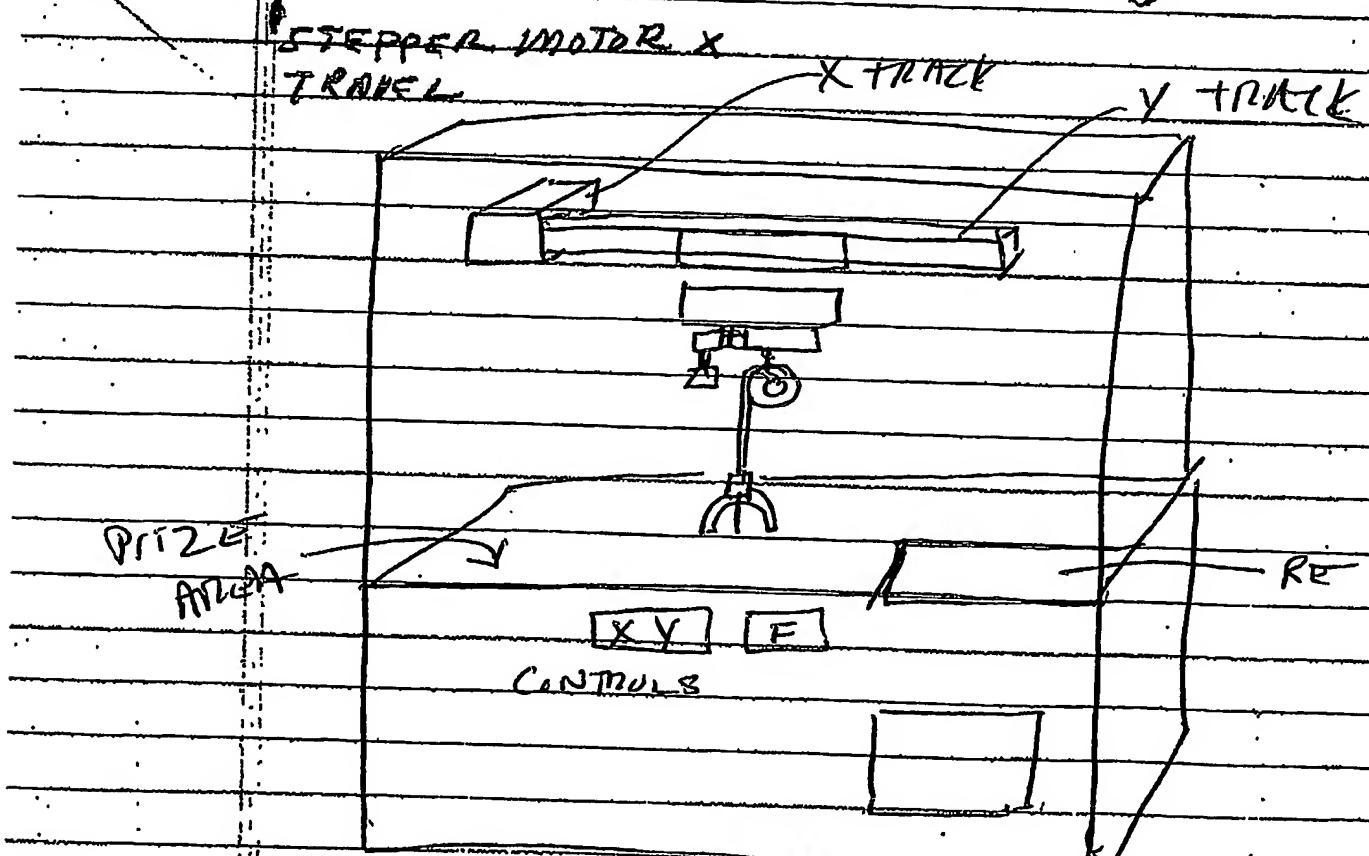
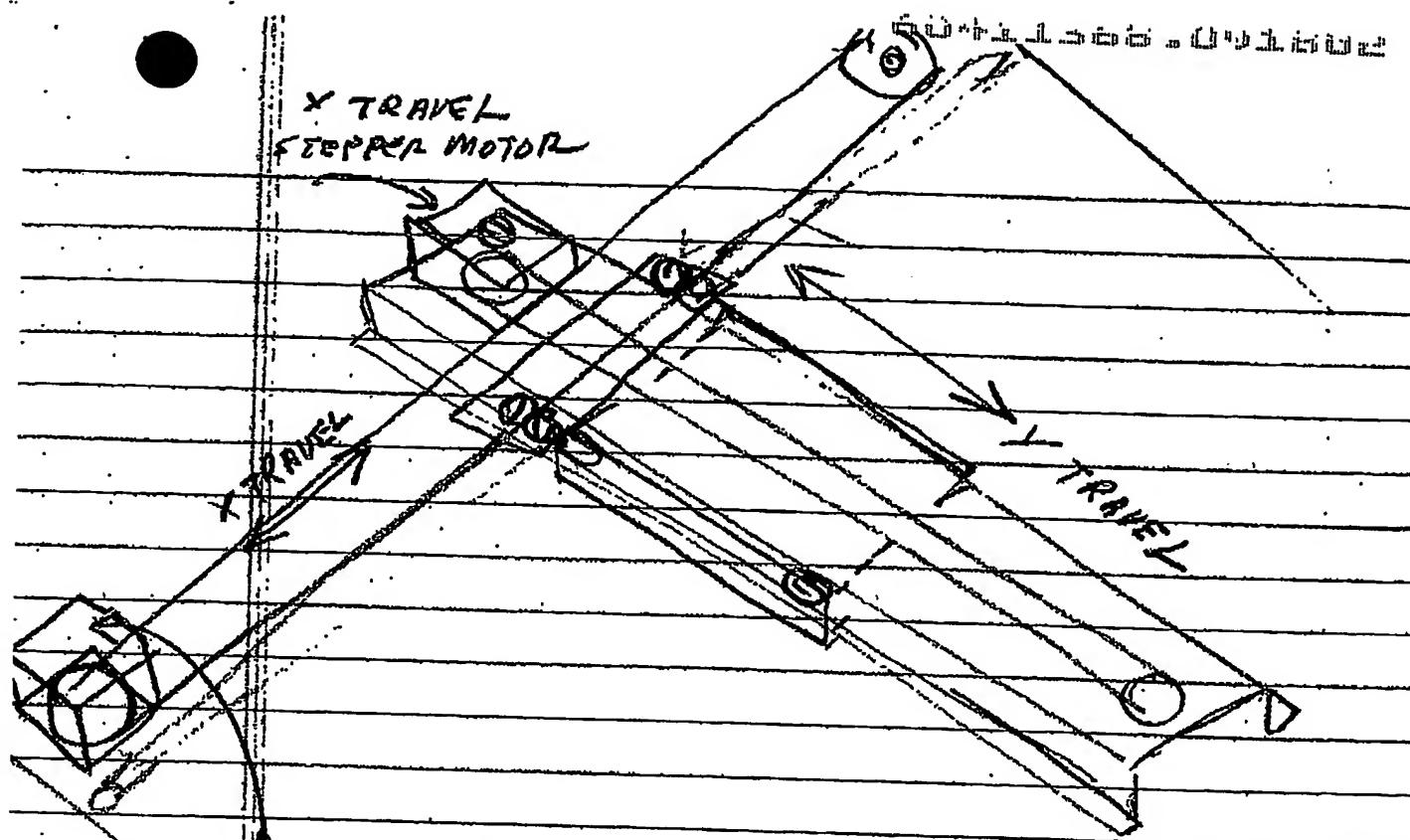
- (1) AIR CYLINDER REPLACES HIGH CURRENT COLENOID THAT DONT HAVE LINEAR POWER CURVE.
- (2) AIR CYLINDER WILL NOT HEAT UP LIKE A COLENOID DOSE THAT CHANGES THE POWER CURVE DEPENDING ON TEMP.
- (3) CLAW UP/DOWN STEPPER MOTOR CAN DETECT LEVEL OF PRIZES TO INSTRUCT WHEN TO RAISE LEVEL OF PRIZES TO KEEP GAME AT A FULL LEVEL TO INVITE MORE PLAY.
4. WITH AIR DRIVEN CLAW THERE IS NO COLENOID POWER WIRE CONNECTED TO SIDE OF CLAW BY HAVING A SINGLE AIRLINE CONNECTED TO CENTER OF CLAW ASSY WE ROTATE CLAW UP TO 60 DEGREES GIVING PLAYER MORE INTERACTION.
- (5.) UNTIL Now A CRANES HAS X/Y/Z/ TRAVEL WE Now HAVE X/Y/Z AND ROTATE.
- (6.) A AIR CYLINDER HAS GIVEN TORQUE THROUGHT OUT FULL TRAVEL.

STEPPER MOTORS V/S DC MOTORS

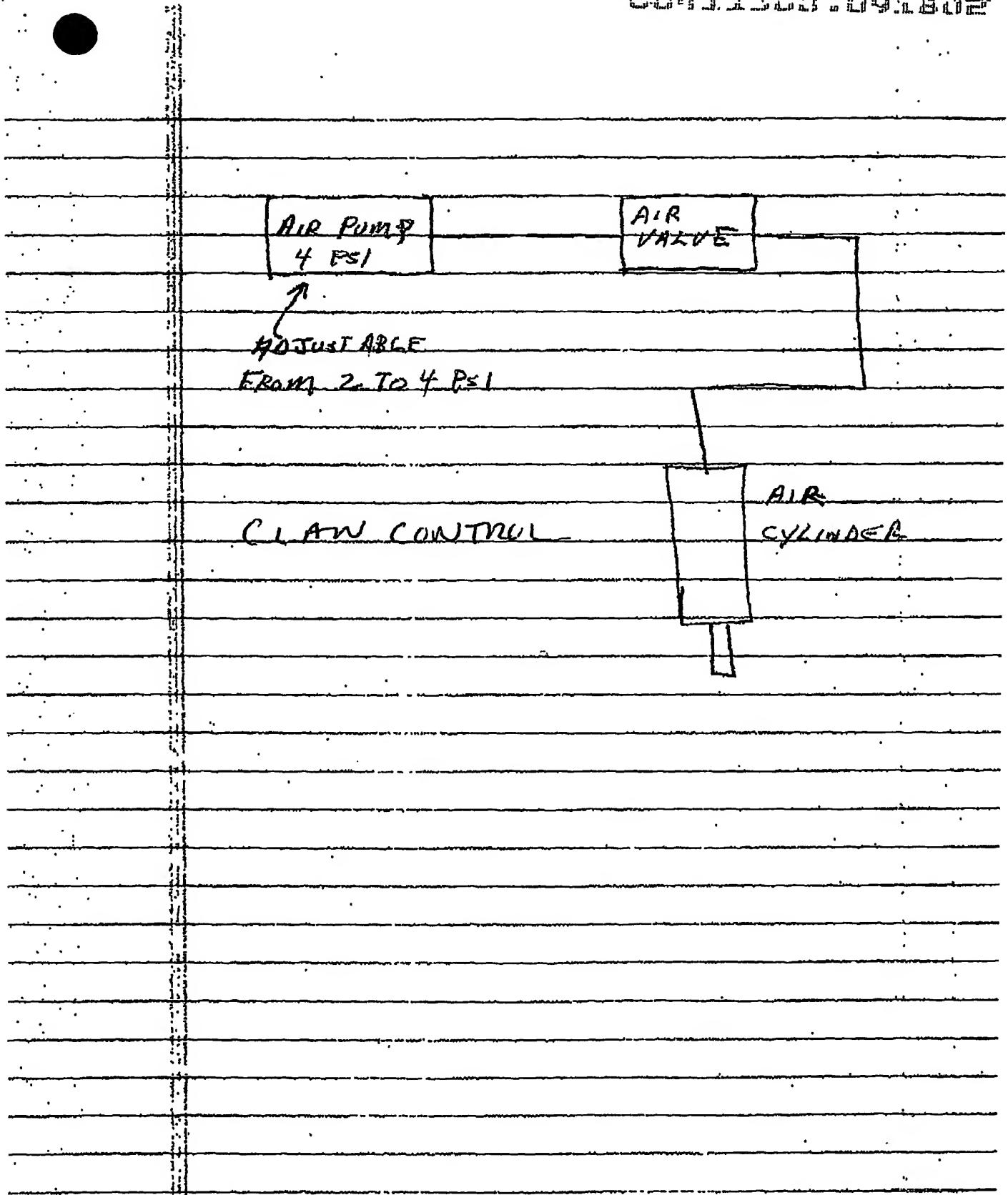
(1) WITH D.C. MOTORS DRIVING X/Y/Z TRAVEL THEY NEED A END OF TRAVEL SWITCH AT EACH END. 6 SWITCHES IN TOTAL WITH STEPPER MOTORS NO SWITCHES ARE NEEDED.

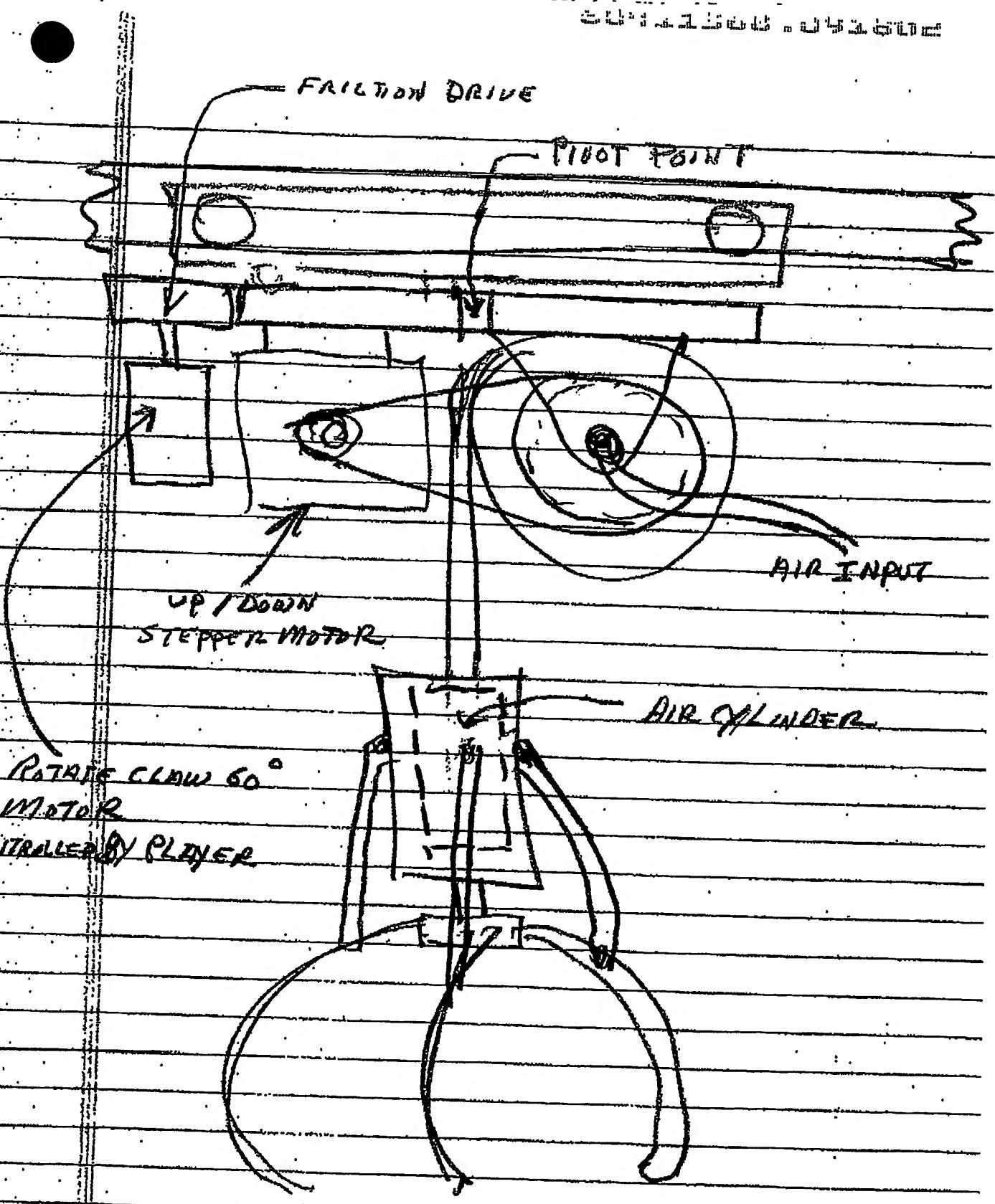
(2) IF THERE IS A MECHANICAL POSITION THAT LIMITS TRAVEL OF DC MOTOR WHEEL, BACK OUT IN A STALL POSITION. IF A STEPPER MOTOR IS STALLED IT WILL JUST SKIP.





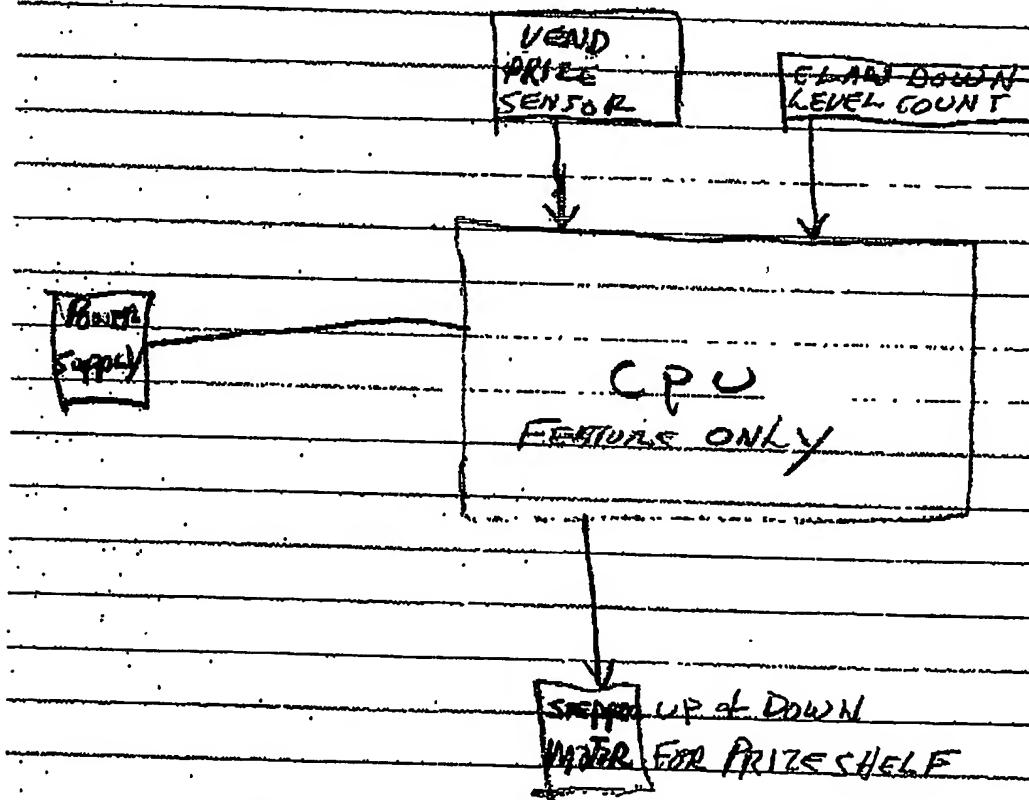
F CONTROL ALLOWS CRANE CLAW TO ROTATE. - (4) q 20





CRANE FEATURE
TO KEEP PRIZE LEVEL FULL AND
RELOADS 50% LESS.

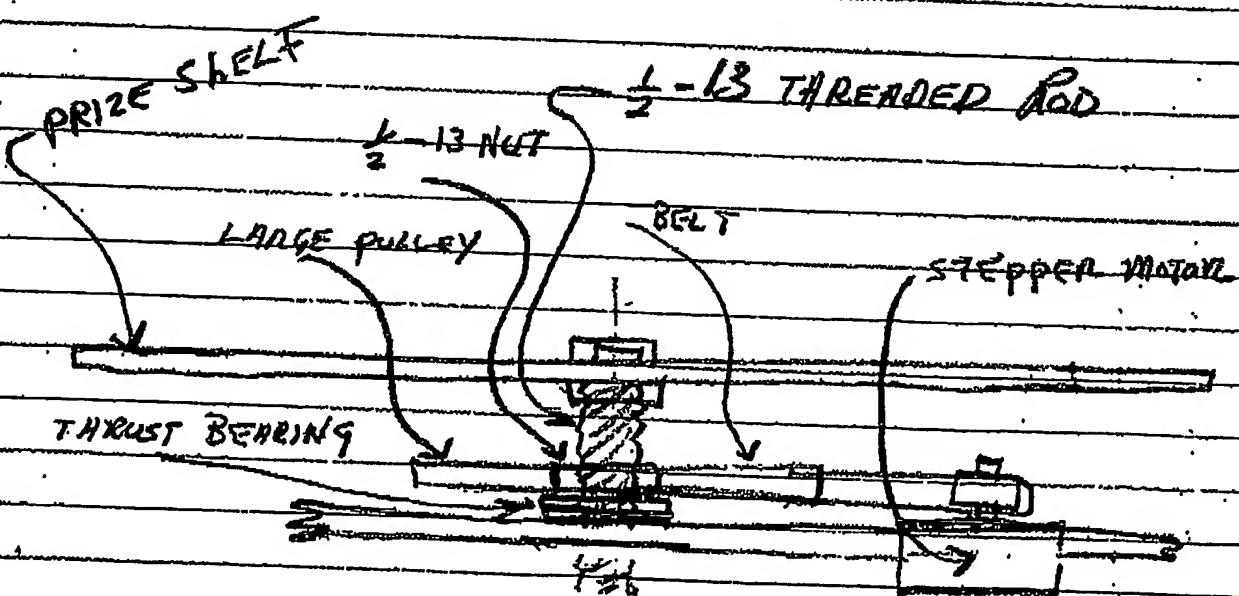
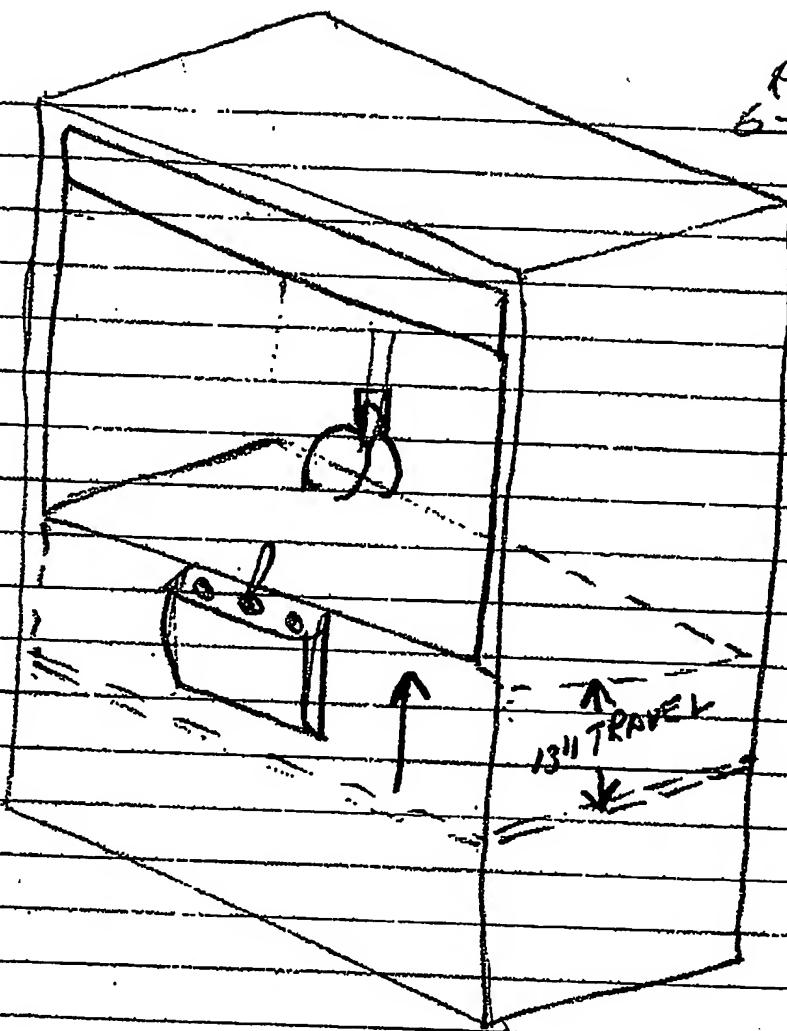
(1) THE STEPPER MOTOR WILL RAISE THE
PRIZE SHELF WHEN PRIZE VEND COUNT TABLE
IS REACHED OR HOW FAR THE CLAW CAN BE
LOWEDED. THE RATE OF CLIMB FOR PRIZE
SHELF IS VERY SLOW ABOUT 1" PER HOUR.
MAXIMUM SPEED. RESET SPEED WILL BE NORMAL.



Ron HALLIBURTON
6-10-02

(7) 420

RON HALLIBURTON
6-10-02



REH

AUTO FULL LEVEL FOR
COIN OPERATED CRANES

PRIZE TABLE
MOVES UP/DOWN

THRUST
BEARING

LIFT SCREW
 $5/8 \times 11$

HEX NUT $5/8 \times 11$

TIMING BELT PULLEY

END OF TRAVEL OPTO
SENSOR DOWN POSITION

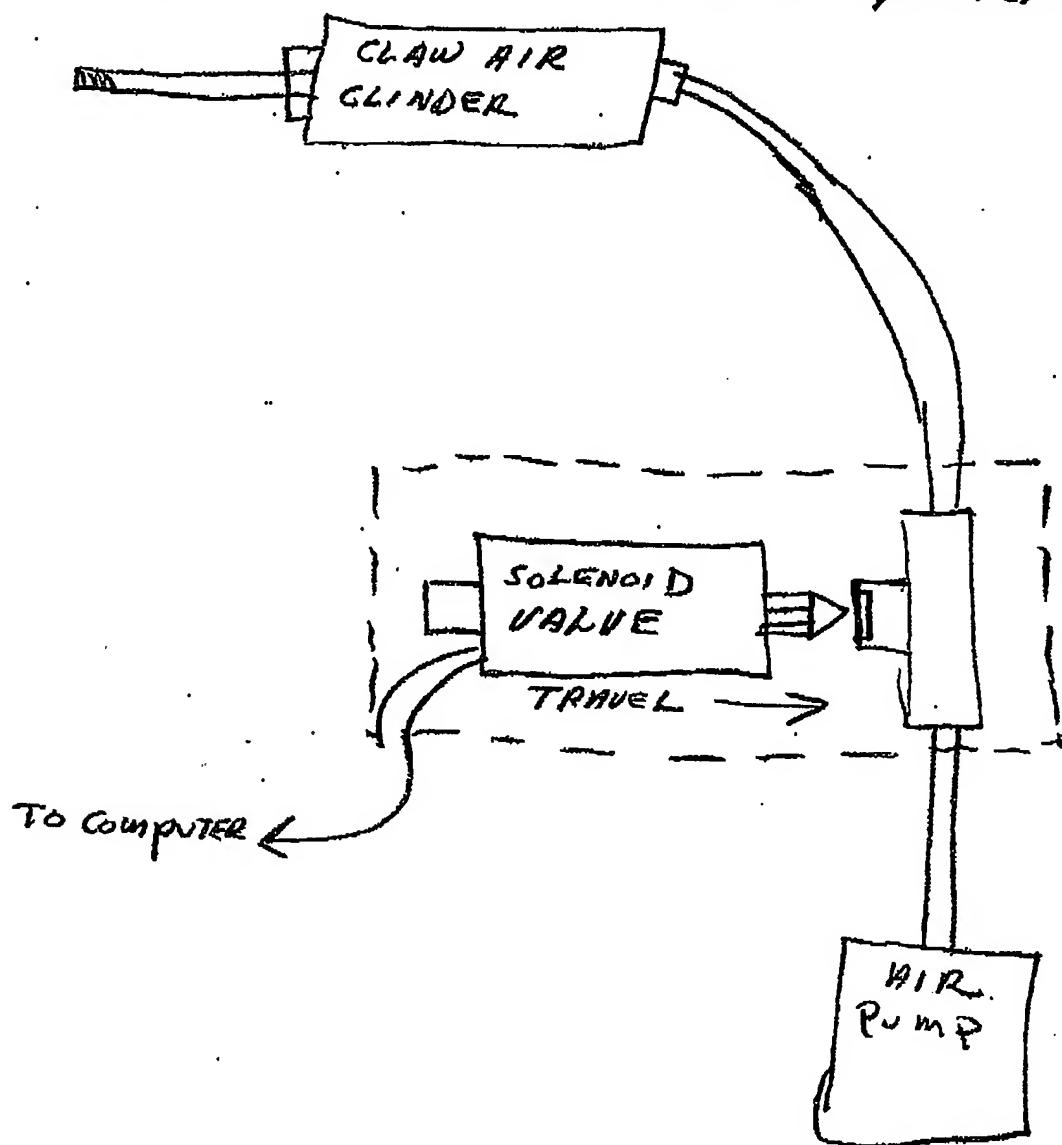
STEPPER MOTOR
TIMING BELT

WHEN CRANE IS LOADED THE PRIZE TABLE IS RESET TO
DOWN POSITION. AS GAMES ARE PLAYED THE TRAVEL OF
THE CLAW IS LOGGED. WITH EACH PLAY WHERE A AVG.
PRIZE LEVEL CAN BE DETERMINED. THIS ALLOWS FOR
A INTELLIGENT WAY OF KEEPING PRIZE LEVEL NEAR
FULL FOR MAXIMUM PLAY APPEAR. ALSO DOUBLE AMOUNT
OF PRODUCT CAN BE LOADED EACH TIME LIMITING THE
AMOUNT OF SERVICE CALLS.

9-12-02

(9) 420

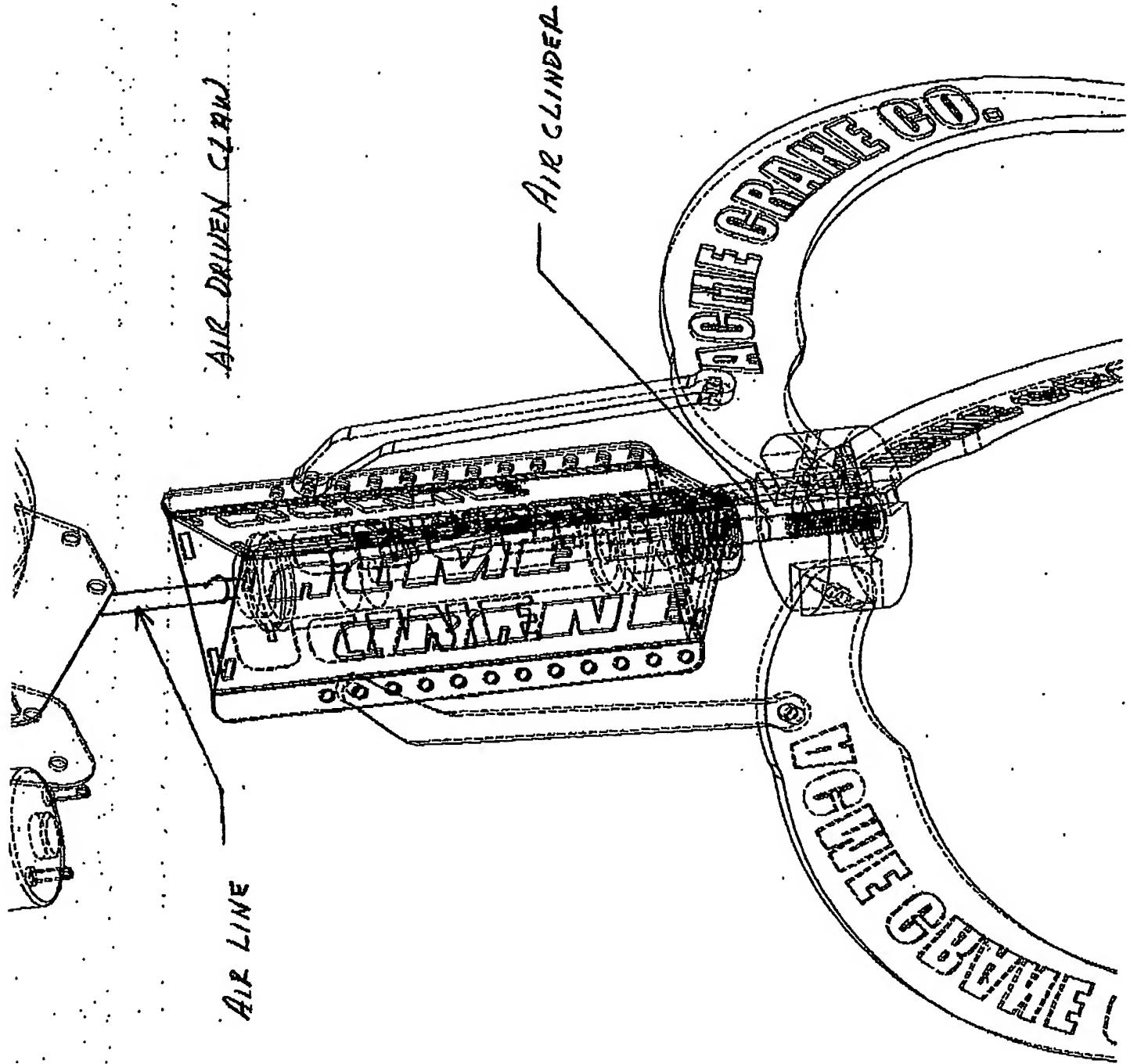
CRANE CLAW USING AIR CYLINDER



WHEN SOLENOID IS ENERGIZED AIR PRESSURE BUILDS TO ACTIVATE AIR CYLINDER. WHEN SOLENOID IS RELEASED AIR PRESSURE IS RELEASED ALLOWING AIR CYLINDER TO RETURN.

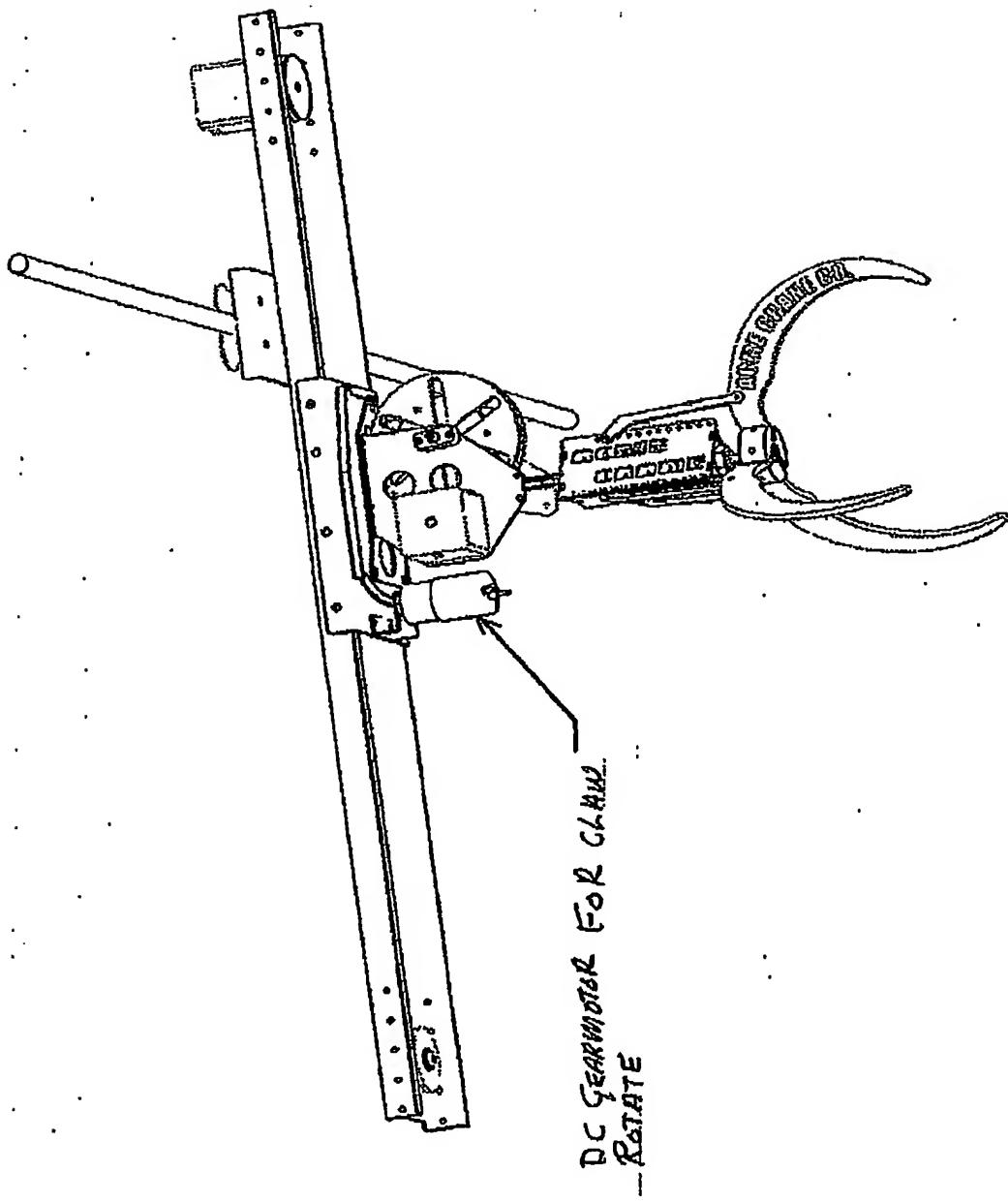
60411368 . 091807

PCP 11

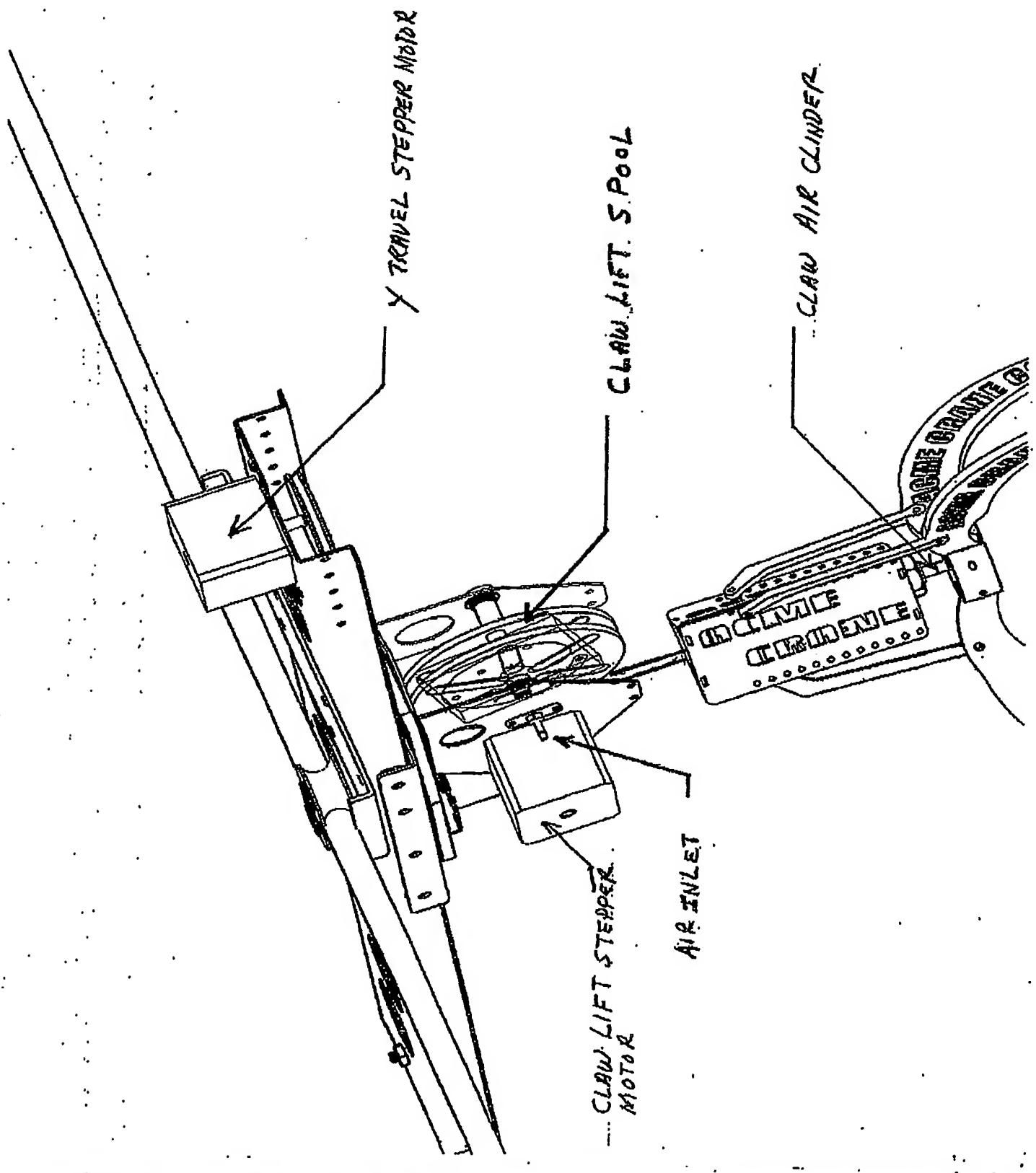


60°111368 .09180 N

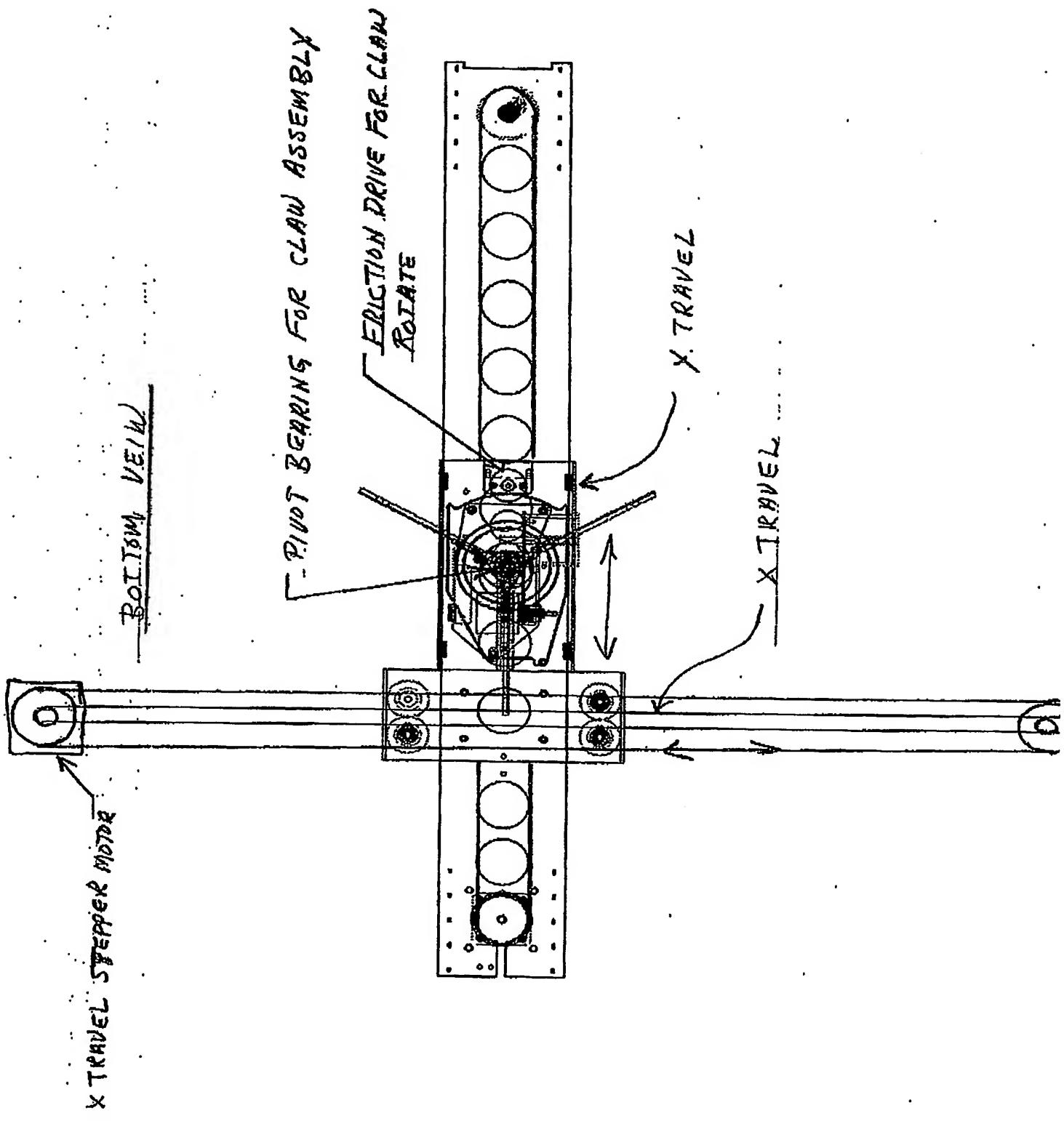
026 (21)



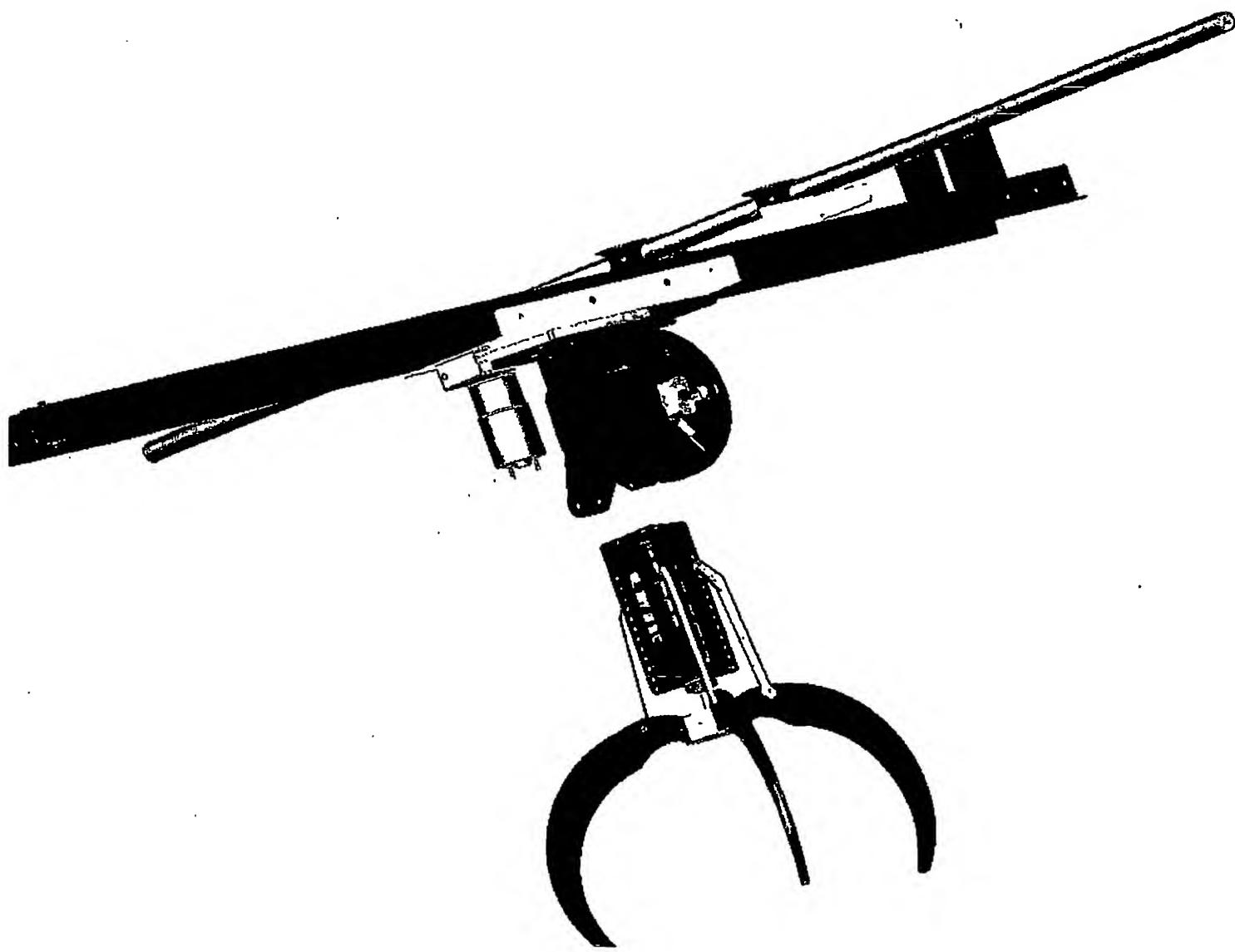
PZ 131



PZ / (h1)

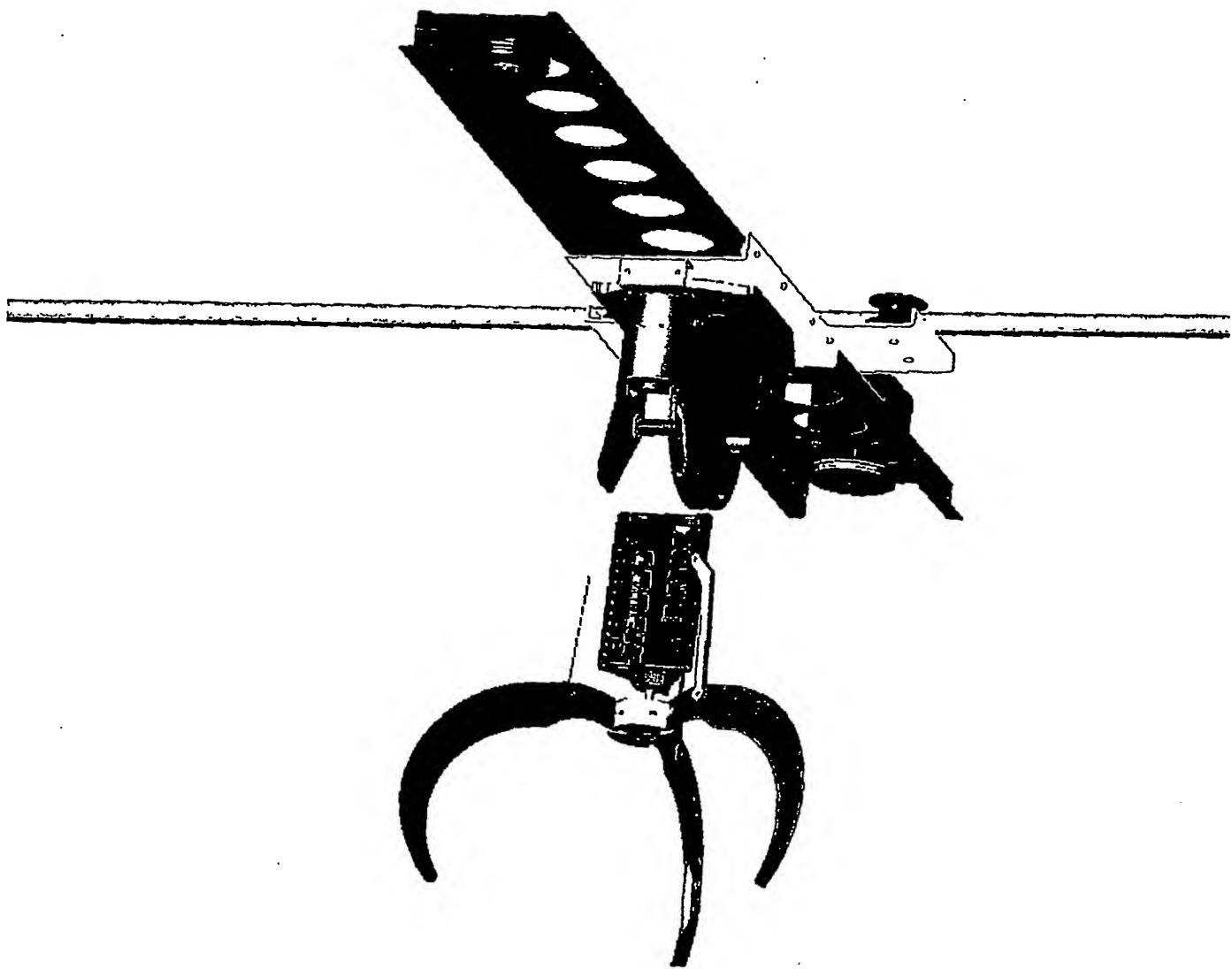


60411368 . 091802



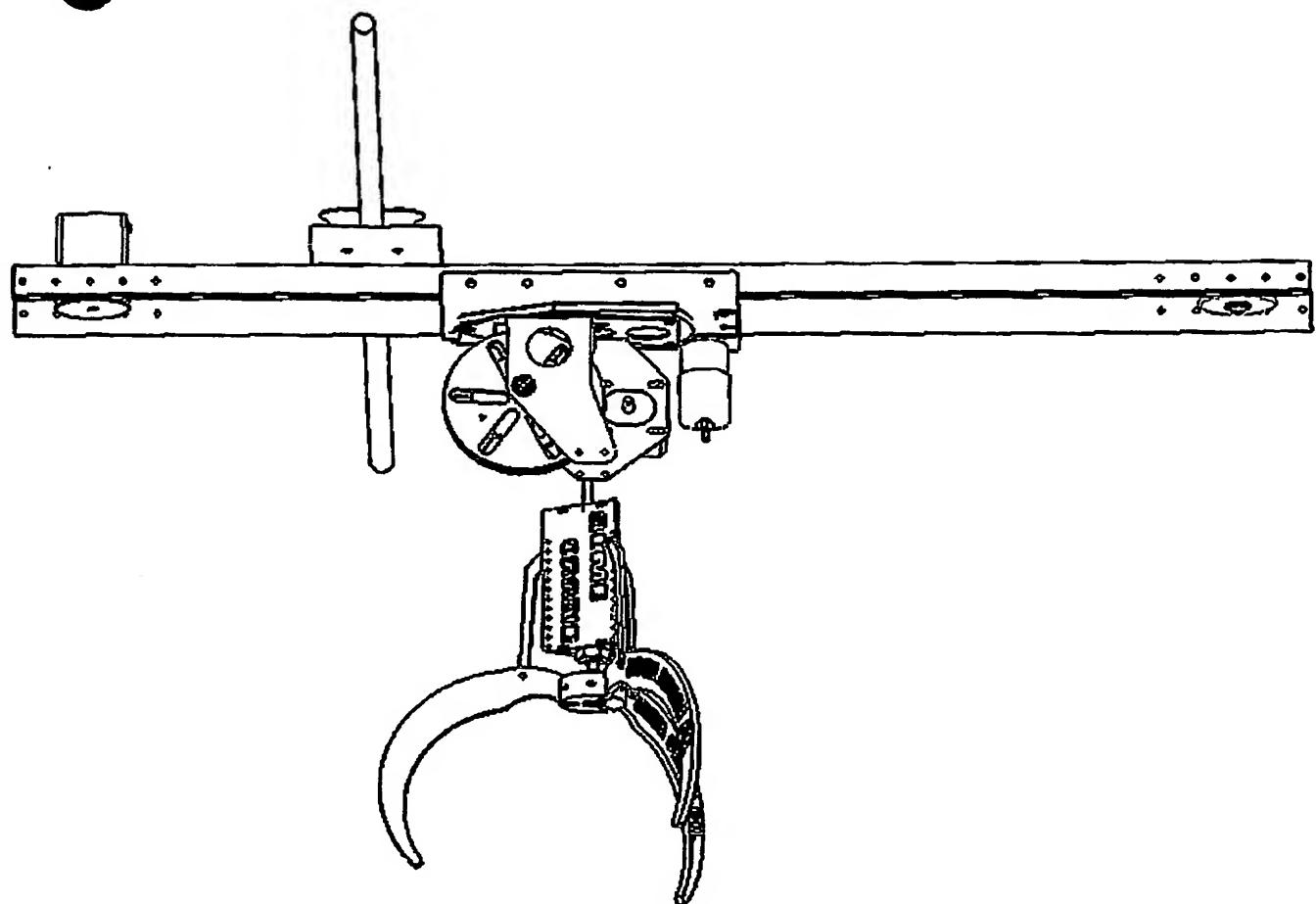
(15) 420

60411368 09180



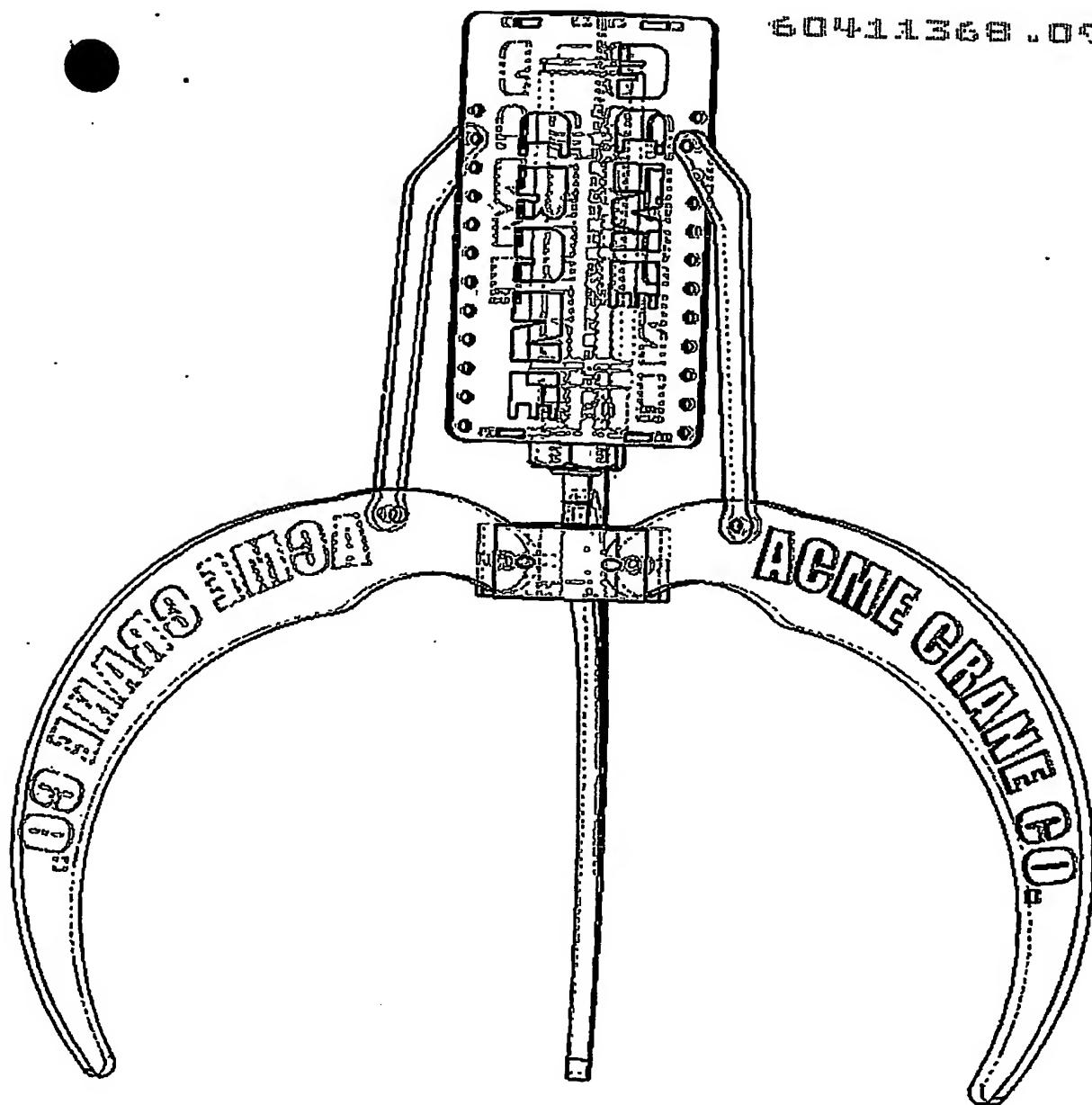
⑯ 420

60411368 . 091802

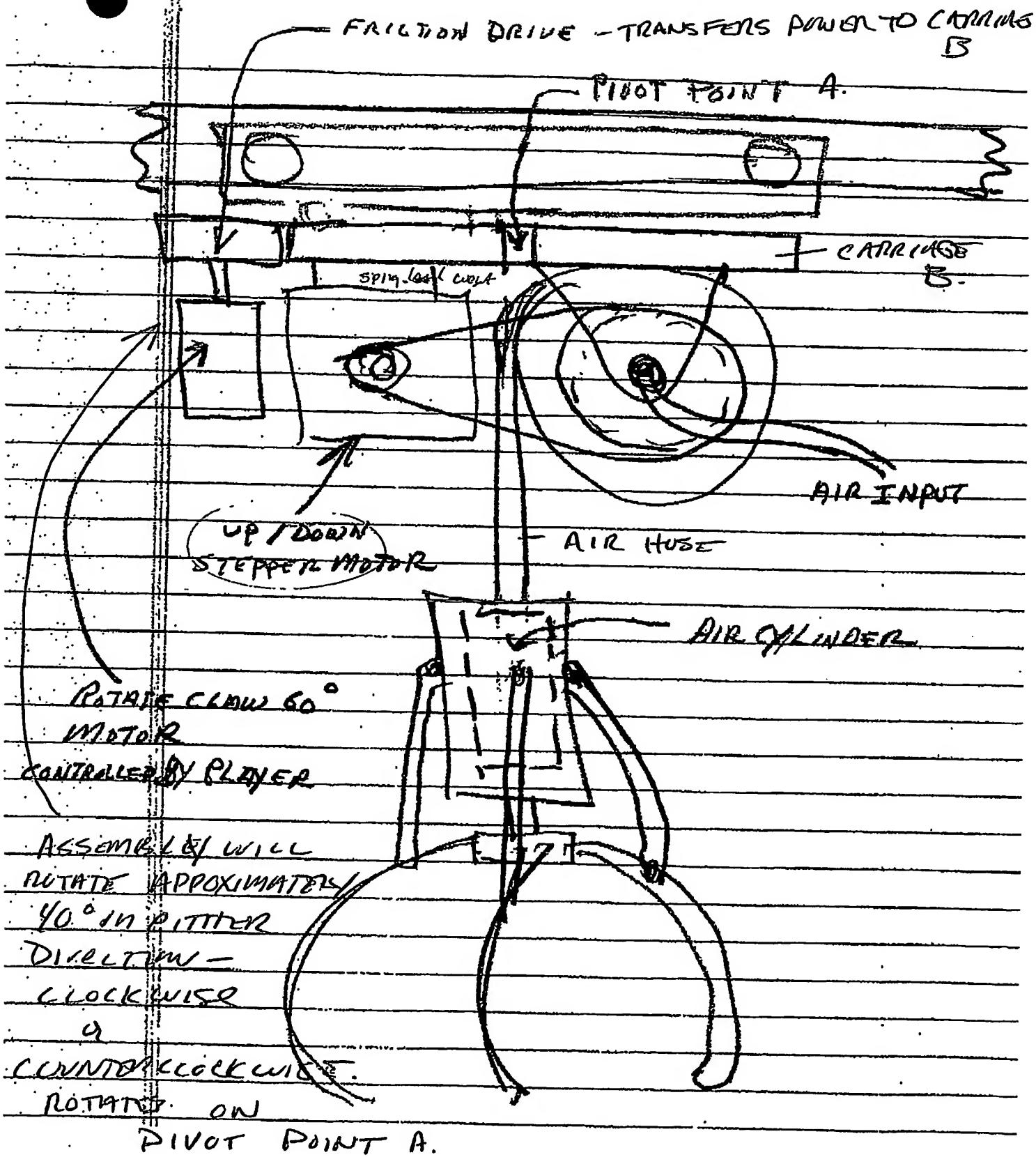


(17) 420

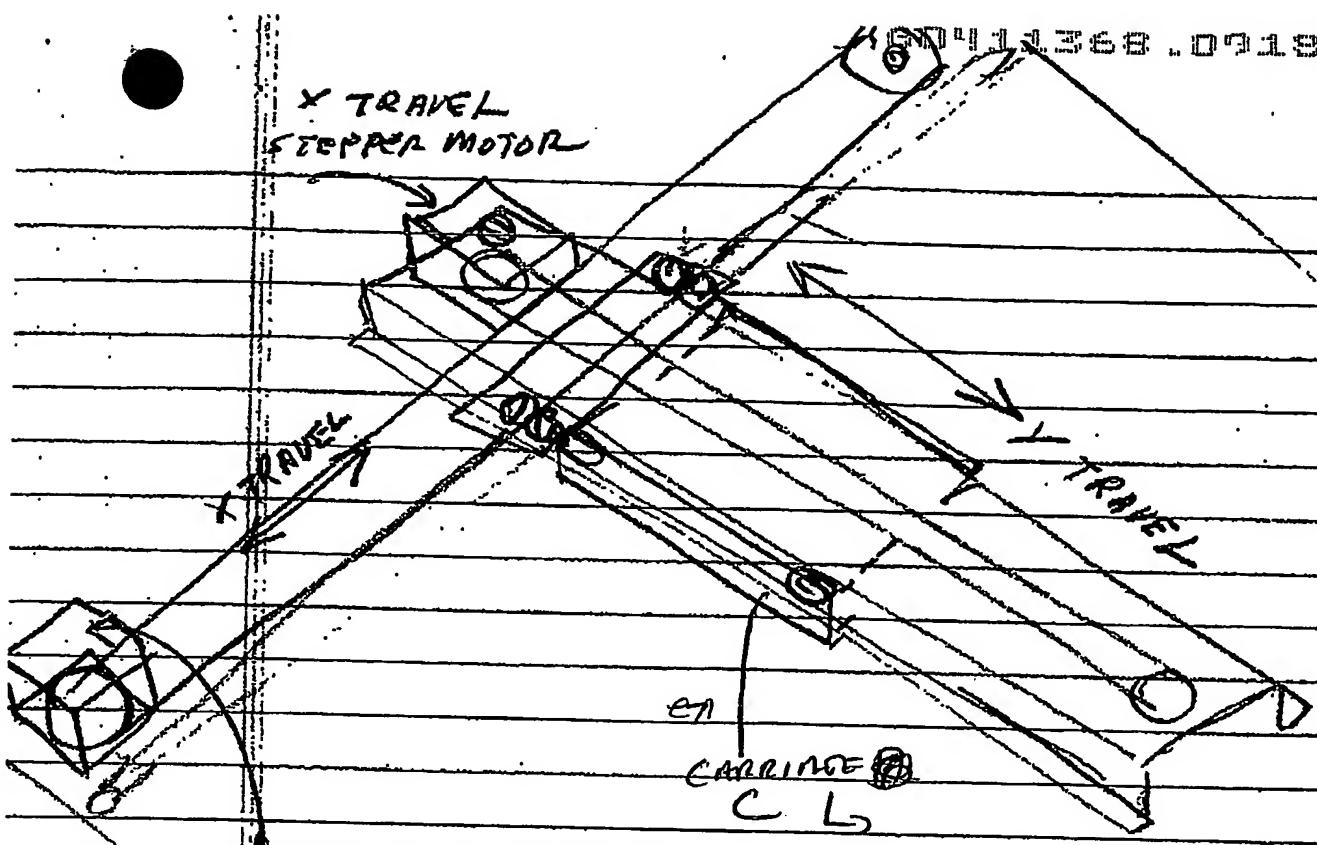
60411368 . 091802



(18) 120



KEN 411368 091802



STEPPER MOTOR X
TRAVEL

CARRIAGE B IS
ATTACHED TO CARRIAGE
C

20/20

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

BLACK BORDERS

IMAGE CUT OFF AT TOP, BOTTOM OR SIDES

FADED TEXT OR DRAWING

BLURRED OR ILLEGIBLE TEXT OR DRAWING

SKEWED/SLANTED IMAGES

COLOR OR BLACK AND WHITE PHOTOGRAPHS

GRAY SCALE DOCUMENTS

LINES OR MARKS ON ORIGINAL DOCUMENT

REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.